

**TRIPURA****GAZETTE***Published by Authority***EXTRAORDINARY ISSUE***Agartala, Monday, April 26, 2021 A. D., Vaisakha 6, 1943 S. E.*

**PART--I-- Orders and Notifications by the Government of Tripura,  
The High Court, Government Treasury etc.**

**GOVERNMENT OF TRIPURA  
FOREST DEPARTMENT**

No.F.17(163)/For-Dev/FHQ/2019-20/2480-540

Dated, Agartala, the 20th April, 2021.

**NOTIFICATION**

**Subject: Rates for various types of bamboo plant guards (*jhungras*) and fencing for block/avenue plantations in Tripura Forest Department.**

1. Plantations created by Forest Department generally utilize seedlings or seeds/ stumps, which may require fencing during the establishment period in first few years so that the biotic pressure can be kept at check for ensuring survival of the seedlings. Plantations without fencing are susceptible to browsing which, apart from causing mortality of seedlings, can also cause improper and stunted growth of seedlings. Protection by fencing is crucial during the plantation creation year and its subsequent maintenance.

2. Owing to the topography in the State, the fencing may be required in part boundary of the plantations. The fencing for block plantations is generally a running fencing of easily available material viz. bamboo which is cost effective, easy to fabricate in rural areas and also easy to install and repair. Road side and River bank plantations may require individual plant guards for protection if very tall seedlings have not been used for planting. These individual plant guards can be of various materials, such as bamboo or plastic or of hard drawn iron wire mesh.

3. At present, as per the Schedule of Rates of the Department, even bamboo fencing needs to be standardized in terms of design specification, material requirement etc. so that inter-District variations are kept as low as possible and excessive costing is avoided while ensuring quality of fencing undertaken for protection of the plantation.

4. A Committee headed by the Chief Conservator of Forests (Territorial), and comprising of District Forest Officers (DFOs) of North Tripura, Khowai and South Tripura Districts was set up by Orders of the Principal Chief Conservator of Forests & HoFF vide Memorandum No.F.17 (163)/For-Dev/FHQ/2019-20/45671-677 dated 19.01.2021. The Committee undertook a detailed exercise including Time & Motion Studies for preparation of the bamboo jhungras. It also consulted the PWD/RD Schedule of Rates for preparation of wire mesh jhungras etc. apart from taking up required market survey of costs.

5. The State Government, after considering the recommendations of the aforesaid committee, hereby notifies following rates for various types of bamboo plant guards (*jhungras*) and fencing for block/ avenue plantations.


Sl. No.	Type of Jhungra/ Fencing	Indicative cost as per prevailing price (Rs)
1.	Bamboo Jhungra (round shape)	Rs 175/- per Jhungra exclusive of carrying cost
2.	Bamboo Jhungra (triangular shape with jafri panels)	Rs 285/- per Jhungra exclusive of carrying cost
3.	Round plant guard with Bamboo post and plastic net	Rs 225/- per Jhungra exclusive of carrying cost
4.	Bamboo fencing (with tarja)	Rs 850/- per 10 metres
5.	Normal Bamboo fencing	Rs 395/- per 10 metre for Muli runners and Rs 270/- per 10 metre for Mritinga split piece runners

6.	Plastic Net with Mritinga / Rupai post and Muli runner	Rs. 815/- per 10 metre
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**The details of each type of Jhugra (Plant Ground) / Fencing are given in Annexure –I. These are indicative costs only. Codal formalities should be followed.**

This has been issued as per the approval of the Government vide U.O. No.184/MIN-FOR/2021 dated 12.04.2021.

Enclo :-As stated above.

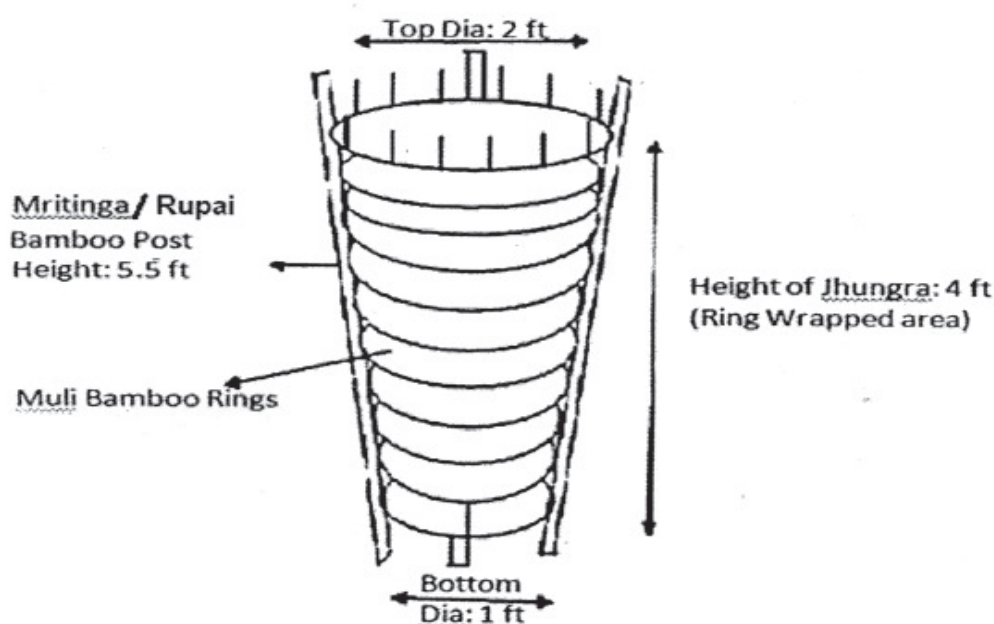
  
( Harshakumar C)  
Joint Secretary to  
the Govt. of Tripura

**Annexure-I**

**A) Individual plant guard: Bamboo Jhungra (round shape)**

**Design specification:** -The size of jhungra is 0.6 m ( 2 ft.) dia on top and 0.3 m (1 ft) at bottom. It should have at least 9 vertical bamboo sticks of length 5 ft. each with sharp end for entering the soil. These sticks form the frame around which there will be at least 11 horizontal Muli bamboo split rings to fence off 4 ft. of the total height of the posts. Each split ring will have 2.5" to 3" inch width and the lowermost ring will have not more than 6 inches clearance from ground. There will be 3 posts of Mritinga/Rupai bamboo of length 5.5 ft. each so that one ft. is used for anchoring in the soil.

**Design: -**



**Material requirement: -**

- 4 Muli Bamboo and 1 Mritinga/Rupai bamboo of length at least 18ft' each and 3 to 4 yr old.
- GI Wire for binding.

**Wage requirement: -**

- 1/5th of 1 Semi-Skilled manday for fabrication.
- 1/25th of a Unskilled manday for fixing at site.

**Indicative cost as per prevailing prices:** -Rs. 175/- per one jhungra exclusive of carrying cost only (considering Muli bamboo @ Rs. 20 per culm, Mritinga/ Rupai @ Rs. 30 per culm, Unskilled Manday- Rs. 205).

**Remarks: -**

- Carrying not exceeding 5% of cost and contingency expenditure upto 2% of cost will be additional, if needed, with the approval of DFO
- Cost and material requirements are indicative.

**B) Individual plant guard: Bamboo Jhungra (triangular shape with jafri panels)**

**Design specification:** -The Muli bamboo jafri panels will be of 4ft height and width 0.5 m each. These will be fixed on-3 inner Mritinga/Rupai bamboo posts and three outer split bamboo posts each of height 6ft.

**Design: -**

Length: 0.5 m  
Height: 1.22 m (4 ft)  
Sides: 3 (Triangular)

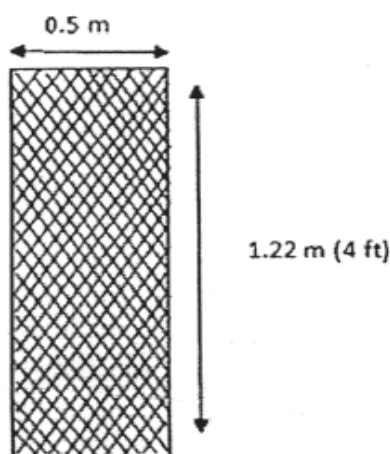


Fig: Bamboo Jafri for Triangular Bamboo Jhungra

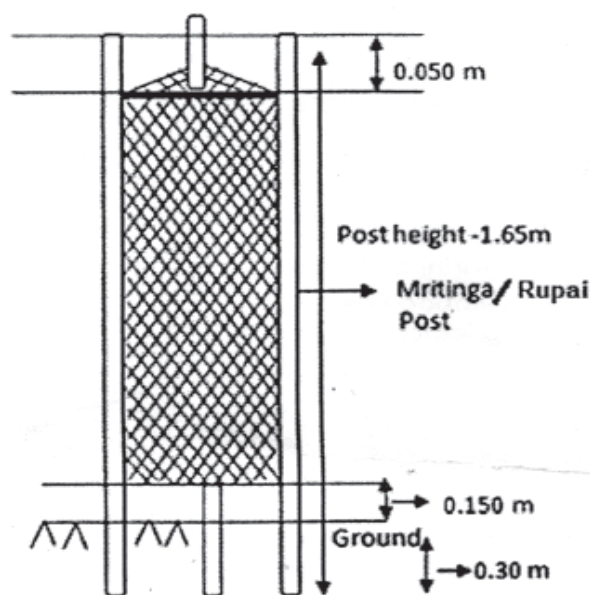


Fig: Triangular Bamboo Jhungra in Complete Shape

**Material requirement: -**

- 5.5 Muli Bamboo and 1 Mritinga/Rupai bamboo of length at least 18ft' each and 3 to 4 yr old.
- GI Wire for binding.

**Wage requirement: -**

- 1/2 of a Semi-Skilled manday for fabrication.
- 1/25th of a Unskilled manday for fixing at site.

**Indicative cost as per prevailing prices:** -Rs. 285/- per jhungra exclusive of carrying cost(considering Muli bamboo @ Rs. 20 per culm, Mritinga/ Rupai @ Rs. 30 per culm, Unskilled Manday- Rs. 205, Semi-skilled manday – Rs. 250).

**Remarks:** -Carrying not exceeding 5% of cost and contingency expenditure upto 2% of cost will be additional, if needed, with the approval of DFO. Use of this jhungra will be restricted to ornamental use only for few seedlings and prior approval for use of this jhungra is to be taken from the concerned DFO.

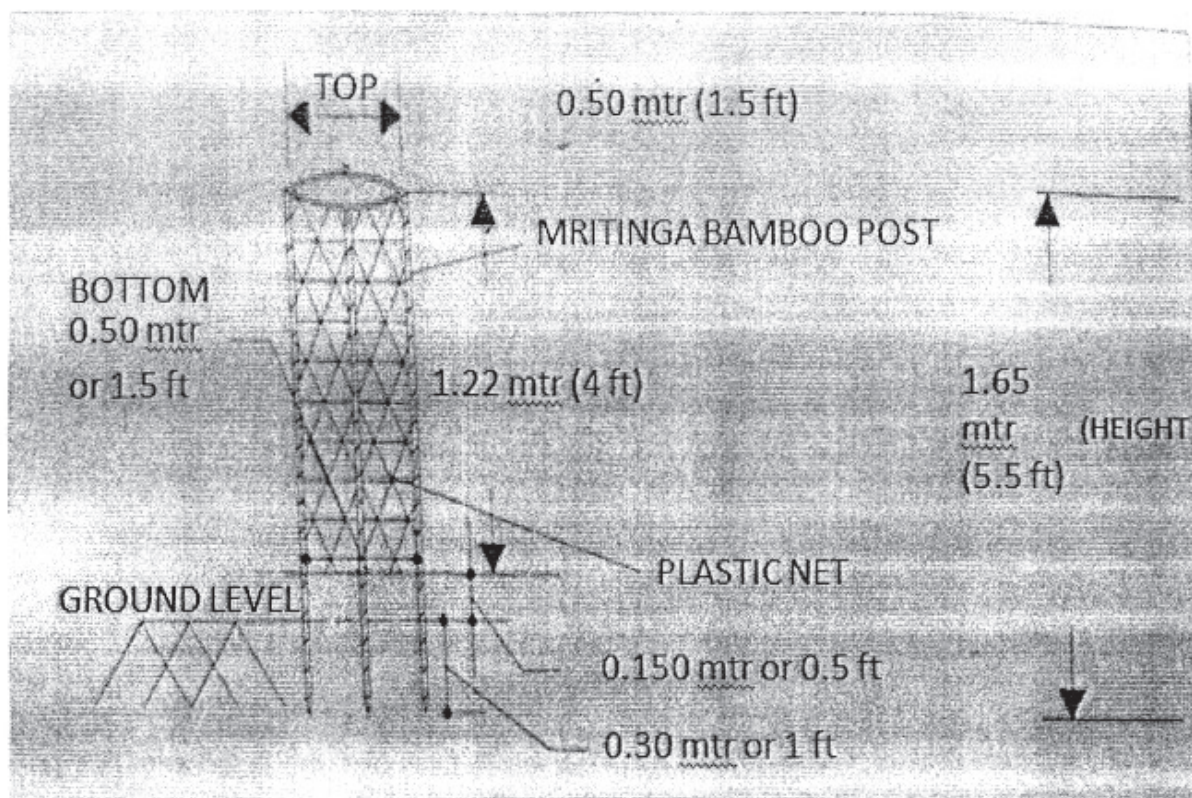
- Cost and material requirements are indicative.



C) Individual Plant guards: Round plant guard with bamboo post and plastic net

**Design specification:** - 4ft tall plastic net (of hole size 1 inch x 1 inch hexagonal) with 5.5 ft high bamboo posts. The top and bottom dia of the jhungra will be 0.5 m each.

**Design: -**



**Material requirement: -**

- 1.6 m of plastic net of hole size 1 inch x 1 inch hexagonal
- 1 nos. Mritinga/Rupai bamboo at least 20ft' each and 3 to 4yr old.
- GI wire for binding.

**Wage requirement: -** 1/10th of Unskilled labour for assembling and fixing at the site.

**Indicative cost as per prevailing prices: -** Rs. 225/- per jhungra exclusive of all carrying costs.(considering Mritinga/ Rupai @ Rs. 30 per culm, plastic net of hole size 1 inch x 1 inch hexagonal and 4ft. height of cost Rs. 5500/- per 50m, Unskilled Manday- Rs. 205).

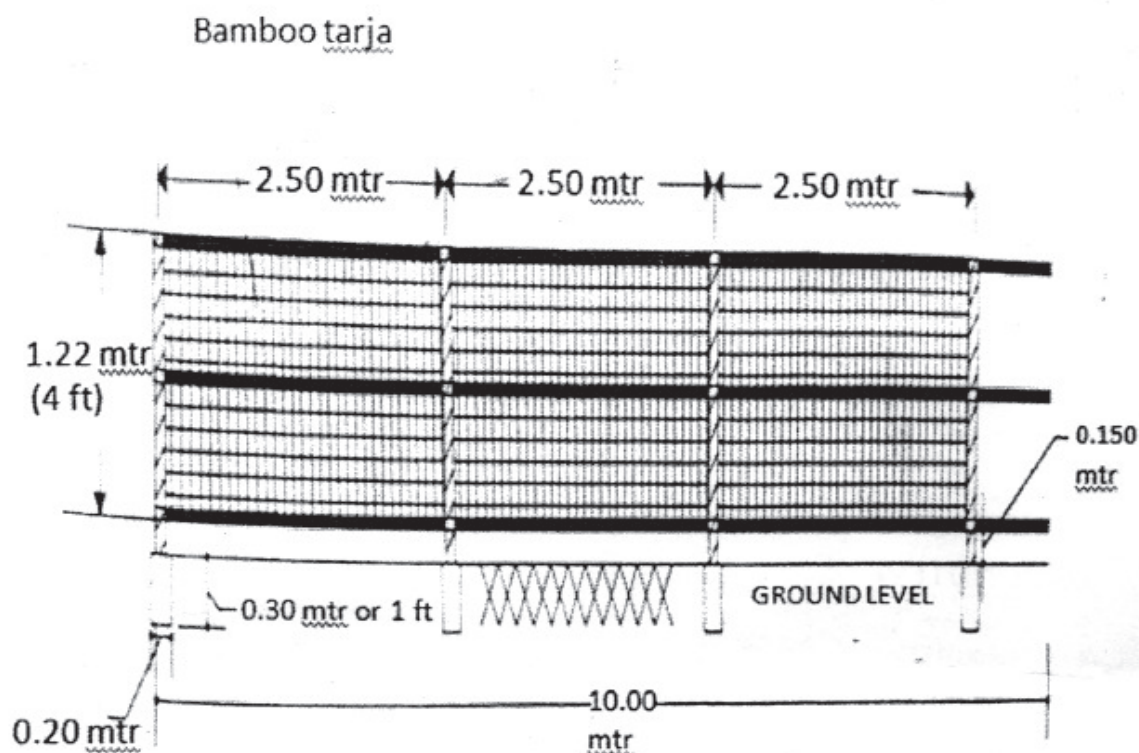
**Remarks: -**

- Carrying not exceeding 5% of cost and contingency expenditure upto 2% of cost will be additional, if required, with the approval of DFO.
- Cost and material requirements are indicative.

**D) Bamboo Fencing (with tarja)**

**Design specification:** - Bamboo tarja fencing (4' Height) on Mritinga/Rupaipost (5.5 Feet Height) held together by Muli and Mritinga/Rupai runners. The posts will be spaced 2.5 m apart

**Design: -**



**Material requirement: -**

- 1 nos. Mritinga/Rupai bamboo at least 22ft' and 3 to 4yr old for 4 nos. post of ht. 5.5 ft each with 1 ft anchoring in ground
- 4 Mritinga/Rupai bamboo of similar quality for top and bottom runners, by splitting each bamboo vertically in half.
- 8 nos. Muli bamboo of length 18ft each split into four vertical lengths each for providing runner and fixing tarja.
- 8 Muli bamboo of length 18ft each for tarja.
- GI wire for binding.

**Wage requirement: - 1.5 Semiskilled DL**

**Indicative cost as per prevailing prices: - Rs. 850/-per 10 m (considering Muli bamboo @ Rs. 20 per culm, Mritinga/ Rupai @ Rs. 30 per culm, Semi skilled Manday- Rs. 250).**

**Remarks:**

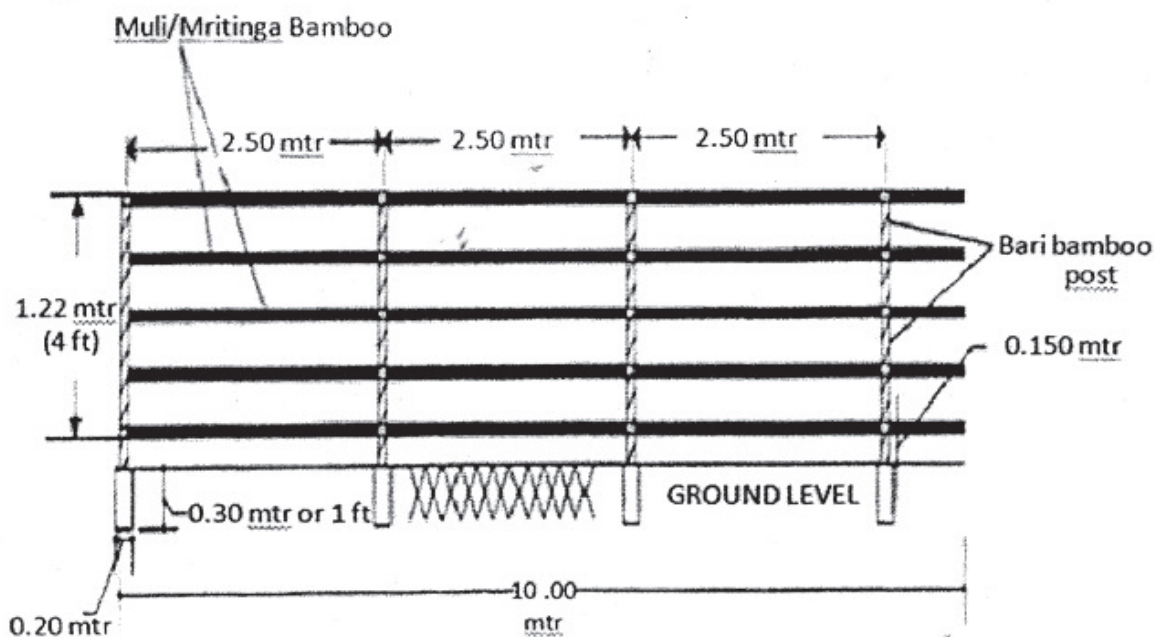
- Carrying not exceeding 5% of cost and contingency expenditure upto 2% of cost will be additional, if required, with the approval of DFO.
- Cost and material requirements are indicative.



E) Bamboo Fencing

**Design specification:** - Normal Bamboo Fencing (4' Height) with Bari bamboo post (5.5 Feet Height) The posts will be spaced 2.5 m apart for supporting 5 horizontal Muli/Mritinga bamboo.

**Design:**



**Material requirement: -**

- 1 No. Bari Bamboo post 3 to 4yr old for 4 nos. post of ht. 5.5 ft each with 1 ft anchoring in ground.
- Muli /Mritinga bamboo for five horizontal lengths. In case of Muli, entire bamboo culm will be used and 10 nos. bamboo culm of length at least 18ft. each would be required for 10 mts. In case of Mritinga, the bamboo will be split in four vertical lengths and thus only 2.5 nos. bamboo culm of length at least 18ft each would be required for 10mts .
- GI wire for binding.

**Wage requirement: - 0.5 Semiskilled DL**

**Indicative cost as per prevailing prices: -** Rs. 395 per 10m for Muli runners and Rs. 270 per 10 m for Mritinga split piece runners(considering Muli bamboo @ Rs. 20 per culm, Mritinga/ Rupai @ Rs. 30 per culm, Bari @ Rs. 60 per culm, Unskilled Manday- Rs. 205, Semi skilled Manday- Rs. 250). Cost may be brought down for muli runners by using split muli bamboo instead of entire culm. However, this will be of reduced longevity than utilizing entire muli bamboo culm.

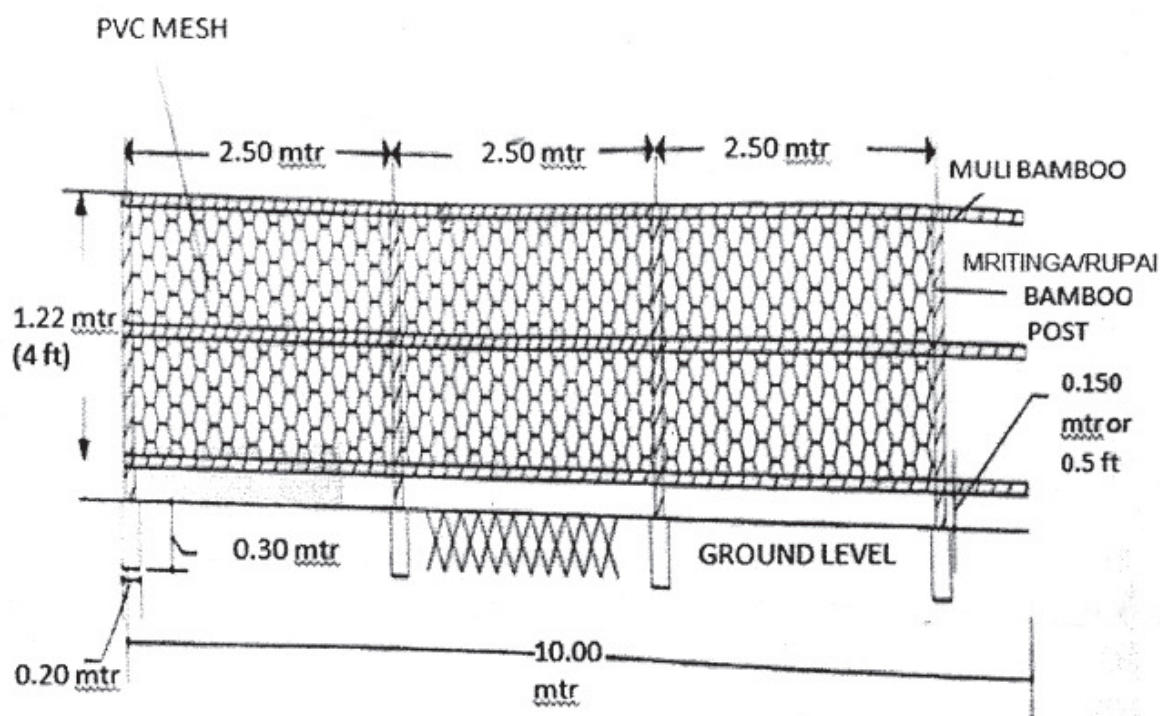
**Remarks:**

- Carrying not exceeding 5% of cost and contingency expenditure upto 2% of cost will be additional, if required, with the approval of DFO.
- Cost and material requirements are indicative.

**F) Plastic Net with Mritinga/Rupai post and Muli runner- 10 m**

**Design specification:** - Fencing made of plastic net (1 inch x 1 inch hexagonal) fixed with 3 runners of Muli bamboo on Mritinga/Rupai post at spacing of 2.5 m apart.

**Design:-**



**Material requirement: -**

- 10 m of plastic net of hole size 1 inch x 1 inch hexagonal.
- 1 nos. Mritinga/Rupai bamboo at least 22ft' length and 3 to 4yr old for 4 nos. post of ht. 5.5 ft each with 1 ft anchoring in ground.
- 5.5 nos. Muli bamboo at least 18 ft each for providing runners.
- GI wire for binding.

**Wage requirement: - 1/2 Semiskilled DL**

**Indicative cost as per prevailing prices: -** Rs. 815/- per 10m (considering Mritinga/ Rupai @ Rs. 30 per culm, plastic net of hole size 1 inch x 1 inch hexagonal and 4ft. height of cost Rs. 5500/- per 50m, Unskilled Manday- Rs. 205)

**Remarks:**

- Carrying not exceeding 5% of cost and contingency expenditure upto 2% of cost will be additional, if required, with the approval of DFO.
- Cost and material requirements are indicative.